Private Construction Summary Measures

Type of Construction	0	CI	ı	С	I/C	М7	Q2	F
Total Private Construction	5.80	0.96	0.68	0.56	1.22	0.12	0.17	820.99
Residential (inc. Improvements)	7.30	1.00	0.52	0.83	0.63	0.12	0.18	1095.75
New single family	6.36	1.04	0.36	0.94	0.39	0.10		782.63
New multi-family	5.02	2.67	2.40	1.19	2.01	0.56	0.50	29.23
Office	4.60	3.68	3.15	1.68	1.88	0.57	0.56	20.48
General	5.06	4.04	3.51	1.83	1.92	0.71		14.26
Financial	9.44	7.79	6.69	2.73	2.45	0.80	0.99	7.38
Commercial (inc. Farm)	5.36	2.46	2.25	0.79	2.84	0.28		102.45
Automotive	9.32	7.93	7.38	2.08	3.55	0.78		9.49
Service/parts	13.49	11.16	10.26	2.91	3.52	0.86		5.76
Parking Food/beverage	14.36 8.03	11.57 7.13	10.48 6.55	3.82 1.88	2.74 3.48	0.75 0.59		9.12 13.51
Food/beverage Food	8.03	6.84	6.20	1.88	3.48	0.59 0.56		18.05
Dining/drinking	8.03	6.84	6.20	1.93		0.56		18.05
Multi-retail	6.78	4.34	4.10	1.08	3.79	0.39		61.64
General merchandise	8.22	6.16	5.81	1.37	4.23	0.40		34.51
Shopping center	7.55	4.23	3.57	1.86	1.92	0.49	0.41	55.04
Shopping mall	10.28	8.06	7.68	2.67	2.88	0.50	0.58	22.47
Other commercial	8.36	5.05	4.58	1.78	2.56	0.44	0.51	48.33
Building supply store	10.48	7.55	6.13	3.60	1.70	0.63		13.98
Other stores	10.67	7.45	6.71	2.53		0.43		41.99
Warehouse	6.26	3.46	2.82	1.68	1.67	0.66		22.91
General commercial	6.26	3.92	3.38	1.65	2.04	0.54	0.49	35.60
Health Care	3.52	2.49	2.18	0.88	2.49	0.60		17.51
Hospital	4.39	2.71	2.32	1.12	2.08	0.68		15.02
Medical building	6.51	4.66	4.13	1.50	2.76	0.96	1.07	5.64
Educational	7.36	4.34	3.81	1.53	2.49	0.35	0.45	67.27
Preschool	18.90	14.38	12.64	5.02	2.52	0.70		13.70
Primary/secondary	13.11	8.61	7.55	3.83	1.97	0.39		45.71
Higher education	8.16	5.54	5.17	1.76	2.93	0.45		33.75
Instructional	9.76	8.27	7.57	2.24	3.38	0.39		29.17
Dormitory Other educational	15.37	11.93 9.17	9.79	5.56	1.76	0.52		32.85 5.75
Gallery/museum	10.17 10.17	7.95	8.49 7.33	2.73 2.65	3.11 2.76	0.86 0.77		6.70
Belliniana	5.55	0.75	0.50	4.04	0.40	0.40	0.54	00.00
Religious House of worship	5.55 6.31	3.75 4.27	3.52 4.06	1.01 0.93	3.49 4.36	0.43 0.44		33.68 34.99
Other religious	7.80	6.24	5.34	2.52	2.12	0.44		9.23
Curer religious	7.00	0.2 1	0.01	2.02	2.12	0.70	0.00	0.20
Amusement and Recreation	6.00	4.96	4.53	1.75		0.59		17.25
Theme/amusement park	14.79	13.84	12.07	6.24				5.56
Sports	11.78	9.69	8.58	3.29	2.61	0.78		8.76
Social center	8.29	6.55	6.27	1.39				7.49
Movie theater/studio	12.33	9.91	8.69	3.80	2.29	0.71	0.51	13.87
Transportation	10.48	4.61	4.20	1.36		0.32		75.50
Air	12.60	10.45	9.31	3.57	2.61	0.71		8.90
Land	12.45	5.49	4.94	1.75	2.82	0.28	0.47	74.62
Communication	10.67	5.79	5.46	1.29	4.23	0.43	0.56	30.11
Power (inc. Gas and Oil)	11.86	8.25	6.95	3.24	2.15	0.58	0.57	23.77
Electric	11.86	8.08	6.60	3.39	1.95	0.69	0.60	22.85
Highway and Street	21.58	14.86	12.52	6.21	2.02	0.60	0.57	16.45
Water Supply	15.51	12.88	12.44	4.56	2.73	0.60	0.63	15.53
Manufacturing	5.19	3.66	2.92	1.90		0.34		35.47
Chemical	9.38	8.04	6.80	3.36				9.67
Fabricated metal	14.15	11.25	10.30	3.68	2.80	0.90	1.13	5.38

Definitions of Summary Measures

Summary measures of the seasonal, cyclical, and irregular components of the construction put in place series provide a rough for use in interpreting current percentage changes in the seasonally adjusted data. Detailed explanations of the basic method and definitions of the measures used appear in Electronic Computers and Business Indicators, Occasional Paper 57, National Bureau of Economic Research, New York, 1957.

The following are brief descriptions of the measures shown in the table above:

Average percent change of the original series

Header: O

Description: The average month-to-month percentage change, without regard to sign, of the original (not seasonally

adjusted) series.

Average percent change of the seasonally adjusted series

Header: CI

Description: The average month-to-month percentage change, without regard to sign, of the seasonally adjusted

series.

Average percent change of the irregular component.

Header: I

Description: The average month-to-month percentage change of the irregular component. This component is

obtained by dividing the trend-cycle component into the seasonally adjusted series.

Average percent change of the trend-cycle component

Header: C

Description: The average month-to-month percentage change of the trend-cycle component. This component is a

smoothed version of the seasonally adjusted series obtained by means of a moving average.

Ratio of the irregular component to trend-cycle component

Header: I/C

Description: Average relative month-to-month change, without regard to sign, of the irregular component divided by

the average relative month-to-month change, without regard to sign, of the trend-cycle component. The ratio serves as an indication of the series' relative smoothness (small values) or irregularity (large

values).

Measure of the amount of moving seasonality present relative to the amount of stable seasonality

Header: M7

Description: A function of the F-test assessing the significance of stable seasonality and the F-test assessing the

significance of moving seasonality. It is one of the 11 quality monitoring statistics that X-12-ARIMA

produces. M7 may range from 0 to 3 with an acceptance range from 0 to 1.

Q2 statistic Header: Q2

Description: This statistic is a weighted average of M1-M11, excluding M2. It is a simplified quality indicator. M2

values can be misleading if the trend shows several changes of direction.

F-test statistic for stable seasonality

Header: F

Description: An F-test measure of the presence of stable seasonality. It is the quotient of two variances: (1) the

between-months (between-quarters) variance and (2) the residual variance.